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Reviewer: Anne Corrigan

Timestamp: [year=2008; month=6; day=10; hr=18; min=0; sec=30; ms=213; ]

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Application No: 10534292 Version No: 1.1

**Input Set:**

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SEQUENCE LISTING

<110> Silence, Karen  
Vaeck, Mark  
Van Bergen En Henegouwen, Paul

<120> METHOD OF ADMINISTERING THERAPEUTIC POLYPEPTIDES,  
AND POLYPEPTIDES THEREFOR

<130> A0848.70004US00

<140> 10534292  
<141> 2005-05-09

<150> PCT/BE2003/000190  
<151> 2003-11-07

<150> US 60/425,073  
<151> 2002-11-08

<150> US 60/425,063  
<151> 2002-11-08

<150> EP 03447005.4  
<151> 2003-01-10

<150> PCT/EP03/06581  
<151> 2003-06-23

<150> PCT/EP03/07313  
<151> 2003-07-08

<160> 143

<170> PatentIn version 3.1

<210> 1

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<212> PRT

<213> Lama glama

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Ser Leu Arg Leu Ser Cys Arg Ala Ser Gly Arg Ile Phe Arg Ile Asn  
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Ala Met Gly Trp Tyr Arg Gln Ala Pro Gly Lys Gln Arg Glu Leu Val  
35 40 45

Ala Thr Ile Thr Ser Thr Gly Ser Thr Asn Phe Ala Asp Ser Val Lys  
50 55 60

Gly Arg Phe Thr Ile Tyr Arg Asp Gly Ala Lys Arg Thr Val Asp Leu  
65 70 75 80

Arg Leu Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Phe Cys Asn  
85 90 95

Ala Asp Val Arg Glu Tyr Asp Leu Gly Pro Trp Arg Gln Tyr Trp Gly  
100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser  
115 120

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<213> Lama glama

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Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Val Val Gln Pro Gly Gly  
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Ser Leu Arg Leu Ser Cys Ser Val Ser Gly Thr Ser Ile Ser Asn Arg  
20 25 30

Val Met Ala Trp Phe Arg Gln Ala Pro Gly Lys Gln Arg Asp Phe Val  
35 40 45

Ala Tyr Ile Thr Ser Ala Val Asn Thr Asp Tyr Ala Asp Phe Val Lys  
50 55 60

Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Gln Asn Met Val His Leu  
65 70 75 80

Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Asn  
85 90 95

Val Leu Lys Asp Thr Trp Phe Arg Thr Pro Tyr Asp Tyr Tyr Trp Gly  
100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser  
115 120

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<213> Lama glama

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Gln Val Gln Leu Gln Glu Ser Gly Gly Leu Val Gln Pro Gly Asp  
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Ser Leu Arg Leu Ser Cys Val Val Ser Gly Arg Thr Leu Ser Tyr Ser  
20 25 30

Ser Leu Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Asp Phe Val  
35 40 45

Ala Ala Leu Ser Leu Thr Thr Tyr Tyr Ala Asp Ser Val Lys Gly Arg  
50 55 60

Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln Met  
65 70 75 80

Asn Ser Leu Lys Pro Asp Asp Thr Ala Asp Tyr Phe Cys Ala Thr Ala  
85 90 95

Arg Thr Arg Thr Asp Tyr Ala Pro Leu Leu Ser Ala Ala Ser Thr Tyr  
100 105 110

Asp Ala Trp Gly Gln Gly Thr Gln Val Thr Val Ser Leu  
115 120 125

<210> 4

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<212> PRT

<213> Lama glama

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Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly  
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Ser Ser Arg Tyr Tyr  
20 25 30

Ala Met Gly Trp Phe Arg Gln Gly Pro Gly Lys Glu Arg Glu Phe Val  
35 40 45

Ala Ala Val Asn Trp Asn Gly Asp Ser Thr Tyr Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Gly Asn Ala Glu Asn Thr Ala Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Val Pro Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Met Arg Met Asn Ala Gly Leu Gly Tyr Ser Ala Ala Ser Tyr Gln

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105

110

Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Leu  
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<213> Lama glama

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Gln Val Gln Leu Gln Glu Ser Gly Gly Leu Val Gln Ala Gly Asp  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Leu Glu His  
20 25 30

Val Met Ala Trp Phe Arg Gln Thr Pro Gly Lys Glu Arg Glu Phe Val  
35 40 45

Gly Ala Ile Asp Trp Ser Gly Arg Arg Ile Thr Tyr Thr Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr  
65 70 75 80

Leu Gln Met Asn Thr Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Ala Asp Arg Thr Tyr Ser Tyr Ser Ser Thr Gly Tyr Tyr Tyr Trp  
100 105 110

Gly Gln Gly Thr Gln Val Thr Val Ser Ser  
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<213> Lama glama

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Gln Val Gln Leu Gln Asp Ser Gly Gly Gly Leu Val Gln Ala Gly Asp  
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Leu Glu His  
20 25 30

Val Met Ala Trp Phe Arg Gln Thr Pro Gly Lys Glu Arg Glu Phe Val  
35 40 45

Gly Ala Ile Asp Trp Ser Gly Arg Arg Ile Thr Tyr Thr Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr  
65 70 75 80

Leu Gln Met Asn Thr Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Ala Asp Arg Thr Tyr Ser Tyr Ser Ser Thr Gly Tyr Tyr Tyr Trp  
100 105 110

Gly Gln Gly Thr Gln Val Thr Val Ser Ser  
115 120

<210> 7

<211> 126

<212> PRT

<213> Lama glama

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Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Leu Ser Ser Tyr  
20 25 30

Thr Met Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val  
35 40 45

Ala Ser Ile Ser Ser Ser Gly Ile Ser Thr Tyr Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Ile Ala Lys Asn Thr Val Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Ala Lys Tyr Arg Tyr Tyr Ser Thr Leu Tyr Thr Lys Ser Gly Glu  
100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser  
115 120 125

<210> 8

<211> 126

<212> PRT

<213> Lama glama

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Gln Val Gln Leu Gln Asp Ser Gly Gly Leu Val Gln Ala Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Glu Ala Ser Gly Arg Thr Ile Ser Ser Tyr  
20 25 30

Ala Met Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val  
35 40 45

Ala Ser Ile Ser Ser Ser Gly Val Ser Lys His Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Asn Asp Lys Val Lys Asn Thr Val Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Phe Cys  
85 90 95

Ala Ala Lys Tyr Arg Tyr Tyr Ser Ser Tyr Tyr Thr Lys Ser Gly Asp  
100 105 110

Tyr Asp Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser  
115 120 125

<210> 9

<211> 121

<212> PRT

<213> Lama glama

<400> 9

Gln Val Gln Leu Gln Glu Ser Gly Gly Leu Val Gln Ala Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Leu Thr Phe Ser Thr Tyr  
20 25 30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val  
35 40 45

Ala Ala Val Ser Tyr Ser Gly Ser Tyr Tyr Ala Asp Ser Val Lys Gly  
50 55 60

Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln  
65 70 75 80

Met Ala Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala  
85 90 95

Arg Asn Arg Gly Tyr Ser Thr Tyr Ala Gly Val Tyr Asp Tyr Trp Gly  
100 105 110

Gln Gly Thr Gln Val Thr Val Ser Ser  
115 120

<210> 10

<211> 125

<212> PRT

<213> Lama glama

<400> 10

Gln Val Gln Leu Gln Asp Ser Gly Gly Gly Leu Val Gln Ala Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Val Thr Phe Ser Ser Tyr  
20 25 30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val  
35 40 45

Ala Ser Ile Thr Trp Ile Gly Gly Thr Tyr Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp His Ala Gly Asn Thr Val Tyr  
65 70 75 80

Leu Gln Met Asn Thr Leu Lys Pro Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Leu Asp Arg Arg Ser Ser Thr Tyr Tyr Leu Met Lys Gly Glu Tyr  
100 105 110

Asp Tyr Arg Gly Arg Gly Thr Gln Val Thr Val Ser Ser  
115 120 125

<210> 11

<211> 125

<212> PRT

<213> Lama glama

<400> 11

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Ala Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Val Thr Phe Ser Ser Tyr  
20 25 30

Ala Met Gly Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val  
35 40 45

Ala Ser Ile Thr Trp Thr Gly Thr Gly Thr Tyr Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp His Ala Gly Thr Thr Val Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Val Asp Arg Arg Ser Ser Thr Tyr Tyr Leu Met Lys Gly Glu Tyr  
100 105 110

Asp Tyr Arg Gly Arg Gly Thr Gln Val Thr Val Ser Ser  
115 120 125

<210> 12

<211> 151

<212> PRT

<213> Lama glama

<400> 12

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Arg Thr Phe Ser Asp His  
20 25 30

Ser Gly Tyr Thr Tyr Thr Ile Gly Trp Phe Arg Gln Ala Pro Lys Glu  
35 40 45

Arg Glu Phe Val Ala Arg Ile Tyr Trp Ser Ser Gly Asn Thr Tyr Tyr  
50 55 60

Ala Asp Ser Val Lys Gly Arg Phe Ala Ile Ser Arg Asp Ile Ala Lys  
65 70 75 80

Asn Thr Val Asp Leu Thr Met Asn Asn Leu Glu Pro Glu Asp Thr Ala  
85 90 95

Val Tyr Tyr Cys Ala Ala Arg Asp Gly Ile Pro Thr Ser Arg Ser Val  
100 105 110

Glu Ser Tyr Asn Tyr Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser  
115 120 125

Ala Ala Ala Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn Gly Ala  
130 135 140

Ala His His His His His  
145 150

<210> 13

<211> 124

<212> PRT

<213> Lama glama

<400> 13

Gln Val Gln Leu Gln Asp Ser Gly Gly Leu Val Gln Ala Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Gly Thr Phe Ser Ser Ile  
20 25 30

Ile Met Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val  
35 40 45

Gly Ala Val Ser Trp Ser Gly Gly Thr Thr Val Tyr Ala Asp Ser Val  
50 55 60

Leu Gly Arg Phe Glu Ile Ser Arg Asp Ser Ala Arg Lys Ser Val Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Ala Arg Pro Tyr Gln Lys Tyr Asn Trp Ala Ser Ala Ser Tyr Asn  
100 105 110

Val Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser  
115 120

<210> 14

<211> 260

<212> PRT

<213> Lama glama

<400> 14

Gln Val Gln Leu Gln Asp Ser Gly Gly Leu Val Gln Ala Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Gly Thr Phe Ser Ser Ile  
20 25 30

Ile Met Ala Trp Phe Arg Gln Ala Pro Gly Lys Glu Arg Glu Phe Val  
35 40 45

Gly Ala Val Ser Trp Ser Gly Gly Thr Thr Val Tyr Ala Asp Ser Val  
50 55 60

Leu Gly Arg Phe Glu Ile Ser Arg Asp Ser Ala Arg Lys Ser Val Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Lys Pro Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Ala Arg Pro Tyr Gln Lys Tyr Asn Trp Ala Ser Ala Ser Tyr Asn  
100 105 110

Val Trp Gly Gln Gly Thr Gln Val Thr Val Ser Ser Glu Pro Lys Thr  
115 120 125

Pro Lys Pro Gln Pro Ala Ala Ala Gln Val Gln Leu Gln Asp Ser Gly

130	135	140
Gly Gly Leu Val Gln Ala Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala		
145	150	155
160		
Ser Gly Gly Thr Phe Ser Ser Ile Ile Met Ala Trp Phe Arg Gln Ala		
165	170	175
180		
Pro Gly Lys Glu Arg Glu Phe Val Gly Ala Val Ser Trp Ser Gly Gly		
185	190	195
Thr Thr Val Tyr Ala Asp Ser Val Leu Gly Arg Phe Glu Ile Ser Arg		
200	205	210
Asp Ser Ala Arg Lys Ser Val Tyr Leu Gln Met Asn Ser Leu Lys Pro		
215	220	225
Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ala Arg Pro Tyr Gln Lys Tyr		
230	235	240
Asn Trp Ala Ser Ala Ser Tyr Asn Val Trp Gly Gln Gly Thr Gln Val		
245	250	255
Thr Val Ser Ser		
260		
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Gln Val Gln Leu Gln Glu Ser Gly Gly Leu Val Gln Pro Gly Gly		
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